

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE SPECIFICATION

The paragraph beginning on page 6, line 19 has been rewritten as follows:

The following method according to the invention may also be used for the screening, detection and/or quantification of proteins which bind to specific double stranded DNA. One such protein is the HIV integrase which recognises the sequence 5'-GTGTGGAAAATCTCTAGCA-3' (SEQ ID NO:132) with a possible GT at the 3' end which is cut by the enzyme. The enzyme can be stabilised in its binding form using specific experimental conditions mainly the presence of Me^{++} (Yi et al. Biochemistry 38, 8458, 1999). Other viral proteins binding to DNA sequence are listed in table 1 and are also possibly detected by the present invention.

The paragraph beginning on page 20, line 23 has been rewritten as follows:

The spacer double strand nucleotide sequences were constructed from the following CMV sequence:

5'TGGCCAAGCGGCCTCTGATAACCAAGCCTGAGGTTATCAGTGTAATGAAGCGCCG
CATTGAGGAGATCTGCATGAAGGTCTTTGCCAGTACATTCTGGGGGCCGATCCTCT
GAGAGTCTGCTCTCCTAGTGTGGATGACCTACGGGCCATCGCCGAGGAGTCAGATG
AGGAAGAGGCTATTGTAGCCTACACTTTGGCCACCGCTGGTGTCAGCTCCTCTGATT
CTCTGGTGTCACCCCCAGAGTCCCCTGTAC (SEQ ID NO:146) acting as a spacer was
linked to a) the NF κ B consensus oligonucleotide 5'AGTTGAGGGGACTTTCCCAGGC-3' (SEQ
ID NO:147) b) the CREB consensus oligonucleotide 5'ATTGCCTGACGTCAGAGAGCTAG-
3' (SEQ ID NO:148)
and c) the AP-1 consensus oligonucleotide 5' CCGTTCCGGCTGACTCATCAAGCG-3' (SEQ
ID NO:149). In the example the spacer was of 100 based pairs. The CMV extremity is 5'
biotinylated, so that these probes can be linked to streptavidin-coated 96-wells plates : 2 pmoles
of probes per well are incubated 1h at 37 °C in 50 μ l 10 mM phosphate buffer 150 mM NaCl
(hereafter called PBS₁₅₀). Plates are then washed and the amount of DNA fixed on streptavidin-
coated plates was quantified using the picogreen assay (Molecular Probes, OR, USA). One

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picomole of DNA was found to be fixed on the wells using DNA standard for calibration of the assay.

The paragraph on page 31, at line 2 has been rewritten as follows:

LyF-1 [PP]YYTGGGAGR (SEQ ID NO:66)

The paragraph on page 31, at line 12 has been rewritten as follows:

Myc TCTCTTA (SEQ ID NO:150)

The paragraph on page 31, at line 28 has been rewritten as follows:

Oct-6 ATGCAAAT (SEQ ID NO:[90]91)

The paragraph on page 31, at line 30 has been rewritten as follows:

P53 RRRC(A/T)(T/A)GYYY(N)₀₋₁₃RRRC(A/T)(T/A)GYYY (SEQ ID NO:92); (SEQ ID NO:133 - SEQ ID NO:145)

The paragraphs on page 33, lines 5 through 23, have been rewritten as follows:

Virus EBNA [(SEQ ID NO:127)]

(B958 strain)

Epstein-Barr

T TAG CAA TG (SEQ ID NO:[128]127)

Virus BZLF

(B958 strain)

Human CBF-1 CGTGGGAA (EpsteinBarr Virus cis-element) (SEQ ID NO:[129]128)

Human Papilloma A CCG AAA ACG GTG T (SEQ ID NO:[130]129)

Herpes Simplex

ATG CTA ATG ATA (SEQ ID NO:[132]130)

Virus Type 1 VP16

HIV TAT GGG TCT CTC TGG TTA GAC CAG

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ATC TGA GCC TGG GAG CTC TCT

GGC TAA CTA GGG AAC CCA

(SEQ ID NO:[133]131)

(TAR RNA SEQUENCE)

HIV Integrase GTGTGGAAAATCTCTAGCA (SEQ ID NO:[134]132)